## APPENDIX

# UNITED STATES UNITS WITH METRIC EQUIVALENTS

- 1 inch=2.540 centimeters. 1 foot=0.3048 meter. 1 yard=0.9144 meter 1 yard=0.0194 inteer.
  1 mile=1.609 kilometers.
  1 square yard=0.8361 square meter.
  1 square 4.047 hectare.
  1 square mile=2.500 square kilometers.
  1 cubic inch=16.39 cubic centimeters.
  1 cubic foot=0.02832 cubic meter. 1 cuble 1001=0.0252 cubic meter.
  1 cuble yard=0.7646 cubic meter.
  1 liquid quart=0.9463 liter.
  1 gallon=231 cubic inches=3.785 liters.
  1 bushel (measured)=2,150.4 cubic inches=35.24 liters.

1 avoirdupois ounce=28.35 grams.

1 troy ounce=31.10 grams.

1 pound=0.4536 kilograms. 1 pound=0.4536 kilogram. 1 long ton=2,240 pounds=1.0160 metric tons of 1,000 kilograms. 1 short ton=2,000 pounds=0.9072 metric ton.

# UNITED STATES GALLON AND BUSHEL WITH BRITISH EQUIVALENTS

1 United States gallon=231 cubic inches=0.8331 imperial gallon. 1 United States bushel=2,150.4 cubic inches=0.9694 imperial bushel.

#### OFFICIAL WEIGHTS OF THE BARREL OF NONLIQUID PRODUCTS

	Pounds	Kilo- grams
Wheat flour, barley flour, rye flour, and corn meal (net) <sup>1</sup>	196 500	88. 90 226. 80
Fish, pickled (net)	200 200	90. 72 90. 72
Cement (4 bags counted as 1 barrel) (net)1	376	170. 55

<sup>1</sup> Except as noted in the tables.

### OFFICIAL WEIGHTS OF THE UNITED STATES BUSHEL

	Pounds	Kilo- grams
Wheat, beans, peas, potatoes (Irish or white)	60	27. 22
Rye, corn (maize), linseed (flaxseed), maslin (mixed grain)	56	25, 40
Barley, buckwheat	48	21, 77
Onions.	57	25. 86
Rough rice	45	20. 41
Malt	34	15, 42
Oats.	32	14, 51
Peanuts, green, in shell	22	9, 98
Castor beans	50	22. 68

## APPROXIMATE WEIGHT OF PETROLEUM AND PRODUCTS

In the United States petroleum and its products are measured by bulk, not Whether handled in containers or without them the quantities are customarily reduced to the equivalent of barrels of 42 United States gallons (barrel thus equals 158.984 liters). In many foreign countries these commodities are measured by weight. The specific gravity of the different grades of crude petroleum and of the finished products varies materially. On the basis of approximate averages the Department of Commerce in converting foreign weight statistics to gallons or barrels of 42 gallons uses the factors shown in the following table:

	Weight of United States gallon		Weight of barrel of 42 gallons	
<u> </u>	Pounds	Kilo- grams	Pounds	Kilo- grams
Crude petroleum Lubricating oils Illuminating oils (kerosene) Gasoline and related products (motor spirit, benzine, etc.) Fuel and gas oils	7. 3 7. 0 6. 6 6. 1 7. 7	3. 311 3. 175 2. 994 2. 767 3. 493	306. 6 294. 0 277. 2 256. 2 323. 4	139. 07 133. 36 125. 74 116. 21 146. 69